

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Solving QEs by Square Roots Practice

**Part One: Solve each quadratic equation using the square roots method. Show your work.**

1. $x^2 - 25 = 0$	2. $e^2 + 16 = 0$
3. $12b^2 = 0$	4. $\frac{1}{2}m^2 + 1 = 0$
5. $z^2 + 7 = 7$	6. $\frac{1}{4}h^2 - 1 = 0$
7. $a^2 = 49$	8. $b^2 = 441$
9. $4r^2 = 25$	10. $27 - g^2 = 0$

**Part Two: Critical Thinking:** Please PERSEVERE and attempt each question to the best of your ability.

11. For what values of $n$ will $x^2 = n$ have two solutions?	12. For what value of $n$ will $x^2 = n$ have exactly one solution?	13. For what values of $n$ will $x^2 = n$ have no solution?
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